

WE CLAIM:

1. A sewing machine comprising:
  - a thread cassette having a thread accommodating cavity in which a
  - 5 supply of thread is stored;
  - a cassette mount to which the thread cassette is detachably attached;
  - a thread tensioner adjusting a tension of the thread drawn from the thread cassette;
  - a detachment operating member operated so that the thread cassette
  - 10 is detached from the cassette mount; and
  - a thread tension control controlling the thread tensioner so that the thread is set at a predetermined tension when the detachment operating member has been operated.
- 15 2. A sewing machine according to claim 1, wherein the thread tension control opens the thread tensioner when the detachment operating member has been operated.
- 20 3. A sewing machine according to claim 2, wherein the thread tensioner applies no tension to the thread when the thread tensioner is opened.
- 25 4. A sewing machine according to claim 1, further comprising a thread tensioner opening mechanism operated in synchronization with the detachment operating member and opening the thread tensioner when the detachment operating member is operated.
5. A sewing machine according to claim 2, further comprising a thread

tensioner opening mechanism operated in synchronization with the detachment operating member and opening the thread tensioner when the detachment operator is operated.

5           6. A sewing machine according to claim 3, further comprising a thread tensioner opening mechanism operated in synchronization with the detachment operating member and opening the thread tensioner when the detachment operating member is operated.

10           7. A sewing machine comprising:  
a thread cassette having a thread accommodating cavity in which a supply of thread is stored;  
a cassette mount to which the thread cassette is detachably attached;  
a thread tensioner adjusting a tension of the thread drawn from the  
15 thread cassette;  
a cassette detector detecting the thread cassette having been attached to the cassette mount; and  
a thread tension control controlling the thread tensioner so that the thread is tensioned a predetermined period of time after detection of the  
20 thread cassette by the cassette detector.

8. A sewing machine according to claim 7, wherein the predetermined period of time is set at a value not more than 30 msec.

25           9. A thread tension control program executed by a computer provided for a sewing machine, accomplishing the functions of:  
controlling a thread tensioner adjusting a tension of the thread drawn from a thread cassette having a thread accommodating cavity in which a

supply of thread is accommodated when the thread cassette is attached to or detached from a cassette mount of the sewing machine; and

controlling the thread tensioner so that the thread is set at a predetermined tension when a detachment operator has been operated, the  
5 detachment operator being operated so that the thread cassette is detached from the cassette mount.

10. A thread tension control program executed by a computer provided for a sewing machine, accomplishing the functions of:

10 controlling a thread tensioner adjusting a tension of the thread drawn from a thread cassette having a thread accommodating cavity in which a supply of thread is accommodated when the thread cassette is attached to or detached from a cassette mount of the sewing machine; and

controlling the thread tensioner so that the thread is tensioned a  
15 predetermined period of time after detection of the thread cassette having been attached to the cassette mount by a cassette detector.